DEPARTMENT OF TRANSPORTATION
DIVISION OF ENGINEERING SERVICES
Office of Structural Materials
Quality Assurance and Source Inspection

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Contract #: 04-0120F4
Cty: SF/ALA Rte: 80 PM: 13.2/13.9
File #: 69.15

SOURCE INSPECTION REPORT

Resident Engineer: Siegenthaler, Peter
Address: 333 Burma Road
City: Oakland, CA 94607

Report No: SIR-003264
Date Inspected: 11-May-2011

Project Name: SAS Superstructure
Prime Contractor: American Bridge/Fluor Enterprises, a JV
Contractor: Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island

OSM Arrival Time: 700
OSM Departure Time: 1900
Location: Changxing Dao, Shangha

Quality Control Contact: Don Walton
Material transfer: ☐ Yes ☐ No ☑ N/A
Stock Transfer: ☐ Yes ☐ No ☑ N/A
Rebar Test Witness: ☐ Yes ☐ No ☑ N/A
Other: Coatings Inspection
Bridge No: 34-0006
Bid Item: 77,78,79

Quality Control Present: ☑ Yes ☐ No
Sampled Items: ☐ Yes ☐ No ☑ N/A
OK to Cut: ☐ Yes ☐ No ☑ N/A
Delayed/Cancelled: ☐ Yes ☑ No ☐ N/A
Component: Sub-Assemblies (OBG) and Sub-Assemblies (
Lot No:

Summary of Items Observed:

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE III coating inspector, Mr. Kenneth W. Cason Jr. arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections is to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE III coating inspector observed the following:

Sub-Assemblies (OBG)

BK Brackets BK001-015 PP109, BK001-017 PP111 and BK017-001 PP117, NOI Number 6610: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on BK Brackets BK001-015 PP109, BK001-017 PP111 and BK017-001 PP117 for dry film thickness (DFT) and final VT compliance. No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Splices (17 Each), NOI Number 6611: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on Splices (17 Each) for dry film thickness (DFT) compliance. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection prior to proceeding with process to the next check point due to holidays found in Interzinc 22 undercoat.

Suspender Bracket SB106W (Re-Blast), NOI Number 6612: In preparation for undercoat installation and in accordance with project specifications, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on Suspender Bracket SB106W. No discrepancies noted and

ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Emergency Access Platform BK-MEP-1 (2 Each), NOI Number 6613: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on BK Brackets BK001-015 PP109, BK001-017 PP111 and BK017-001 PP117 for dry film thickness (DFT) and final VT compliance. No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Switch Cabinet PBS, NOI Number 6614: In preparation for undercoat installation (200HS) and in accordance with project specifications, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on Switch Cabinet PBS. No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

West Anchor Plates WADD-011 Re-Blast (4 Each), NOI Number 6617: In preparation for finish coat Interfine 979 Polysiloxane installation and in accordance with project specifications and SSPC-SP 1, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on West Anchor Plates WADD-011 (4 Each). No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Bike Path Panels BK15-001 PP113 and BK16A-001 PP115, NOI Number 6618: In preparation for mist coat installation of Interfine 979 Polysiloxane, the Interzinc 22 undercoat on Bike Path Panels BK15-001 PP113 and BK16A-001 PP115 was tested in accordance with SSPC-SP 1 (Surface Cleanliness), ASTM D4752 (MEK Resistance of Ethyl Silicate (Inorganic) Zinc-Rich Primers by Solvent Rub) was conducted with x2 @ grade 5. Also tested in accordance with ISO 11127-6 and ISO 11127-7 (soluble salts) with x1 reading recorded @ 8.9 (µs/cm). No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Lamp Brackets LB3100 and LB3001 (2 Each), NOI Number 6619: In preparation for finish coat Interfine 979 Polysiloxane installation and in accordance with project specifications and SSPC-SP 1, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on Lamp Brackets LB3100 and LB3001 (2 Each). No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Splices (17 Each), NOI Number 6620: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on Splices (17 Each) for dry film thickness (DFT) compliance. No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Flumes Re-Blast (8 Each), NOI Number 6623: In preparation for finish coat Interfine 979 Polysiloxane installation and in accordance with project specifications and SSPC-SP 1, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on Flumes Re-Blast (8 Each). ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection prior to proceeding with process to the next check point due to debris found in undercoat.

Flumes (15 Each), NOI Number 6624: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on Flumes (15 Each) for dry film thickness (DFT) and final VT compliance. No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Splices X6513J (8 Each) and Shim Plates (4 Each), NOI Number 6625: In accordance with project specifications, ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on Splices X6513J (8 Each) and Shim Plates (4 Each) in preparation for blasting operations. No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Bike Path Panel BK017-001 PP117, NOI Number 6626: In preparation for undercoat installation and in accordance with project specifications, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on Bike Path Panel BK017-001 PP117. Test results recorded x1 surface profile reading of 66 µm. No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Sub-Assemblies (Tower)

Tower Boom Support Splices (6 Each), NOI Number T2163: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on Tower Boom Support Splices (6 Each) for dry film thickness (DFT) compliance. ABF Quality Assurance personnel instructed ZPMC to re-work and re-submit for inspection due to misses (holidays) in applied coating.

Lift 6 Tower Boom Supports ESD1-7BSA7-4 (2 Each), NOI Number T2164: In preparation for mist coat installation of Interfine 979 Polysiloxane, the Interzinc 22 undercoat on Lift 6 Tower Boom Supports ESD1-7BSA7-4 (2 Each) was tested in accordance with SSPC-SP 1 (Surface Cleanliness), ASTM D4752 (MEK Resistance of Ethyl Silicate (Inorganic) Zinc-Rich Primers by Solvent Rub) and ISO 11127-6 and ISO 11127-7 (soluble salts). Test results x1 MEK @ grade 5 and x1 soluble salts reading recorded @ 8.9 (µs/cm). No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Splices (96 Each) and Facade Splices (41 each), NOI Number T2165: In accordance with project specifications, ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on Splices (96 Each) and Facade Splices (41 each) in preparation for blasting operations. No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Splices (96 Each) and Facade Splices (41 each), NOI Number T2166: In preparation for undercoat installation and in accordance with project specifications, this inspector along with ABF and ZPMC Quality Assurance/Control representatives observed the surface preparation on Splices (96 Each) and Facade Splices (41 each). Test results recorded x6 surface profile readings in the range of 60 to 73 µm. No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Man Hole Cover Plates (5 Each), NOI Number T2167: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on Man Hole Cover Plates (5 Each) for

dry film thickness (DFT) and final VT compliance. No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Tower Boom Support Splices (6 Each), NOI Number T2169: In accordance with project specifications ABF and ZPMC Quality Assurance/Control representatives observed the surface condition on Tower Boom Support Splices (6 Each) for dry film thickness (DFT) compliance. No discrepancies noted and ABF Quality Assurance personnel instructed ZPMC to proceed with process to the next check point.

Office

This Quality Assurance Inspector (QA) reviewed, recorded and entered data from notice of inspection requests for the purpose of tracking and compliance to contract documents.

Note: Unless otherwise noted, all work observed on this date appeared to generally comply with applicable contract documents.

Summary of Conversations:

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact , who represents the Office of Structural Materials for your project.

Inspected By:	Cason,Kenneth	Quality Assurance Inspector
Reviewed By:	Miller,Mark	QA Reviewer